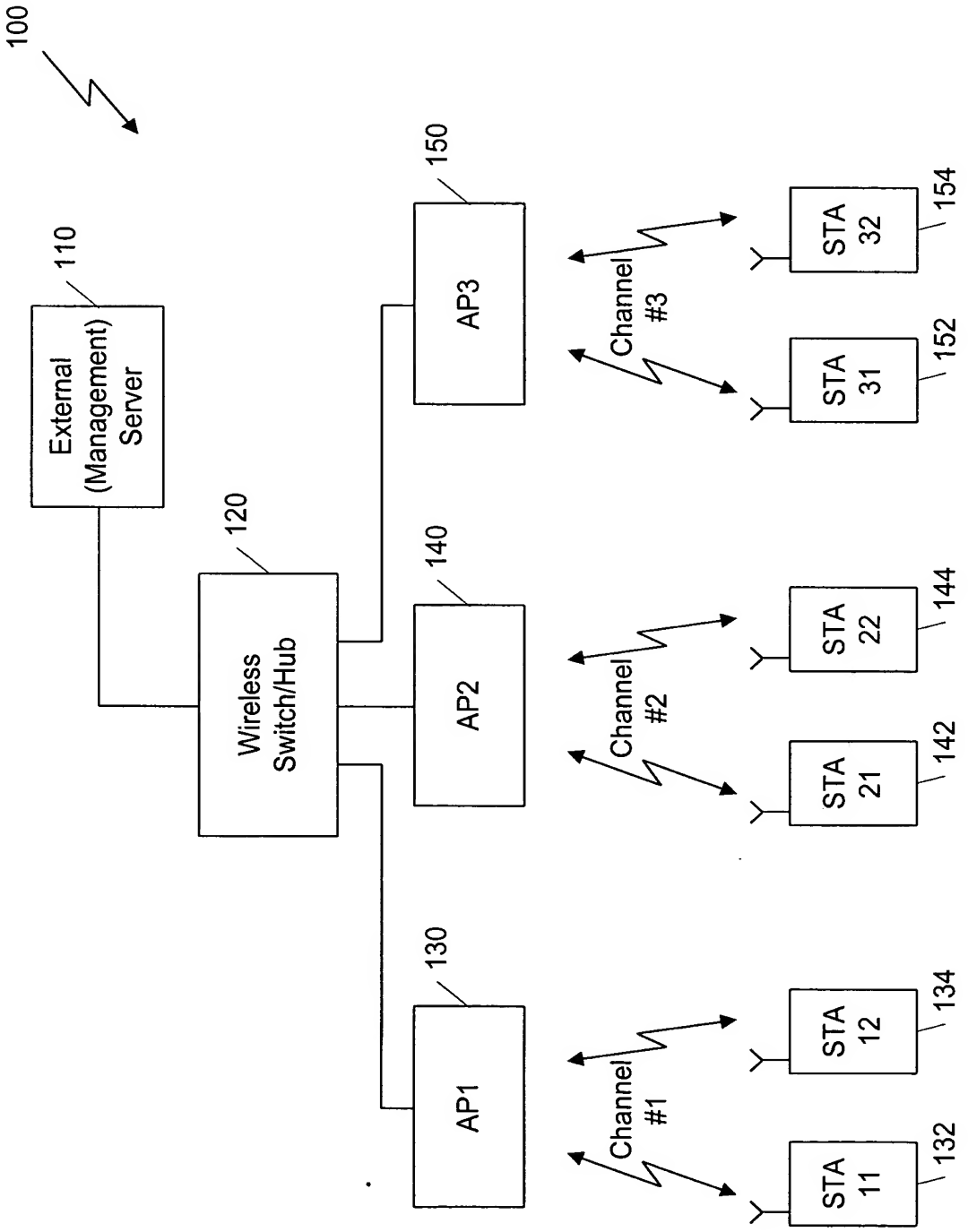
100
External (Management) Server
110
Wireless Switch/Hub
120
AP1
130
AP2
140
AP3
150
Channel #1
Channel #2
Channel #3
STA 11
132
STA 12
134
STA 21
142
STA 22
144
STA 31
152
STA 32
154

FIG. 1

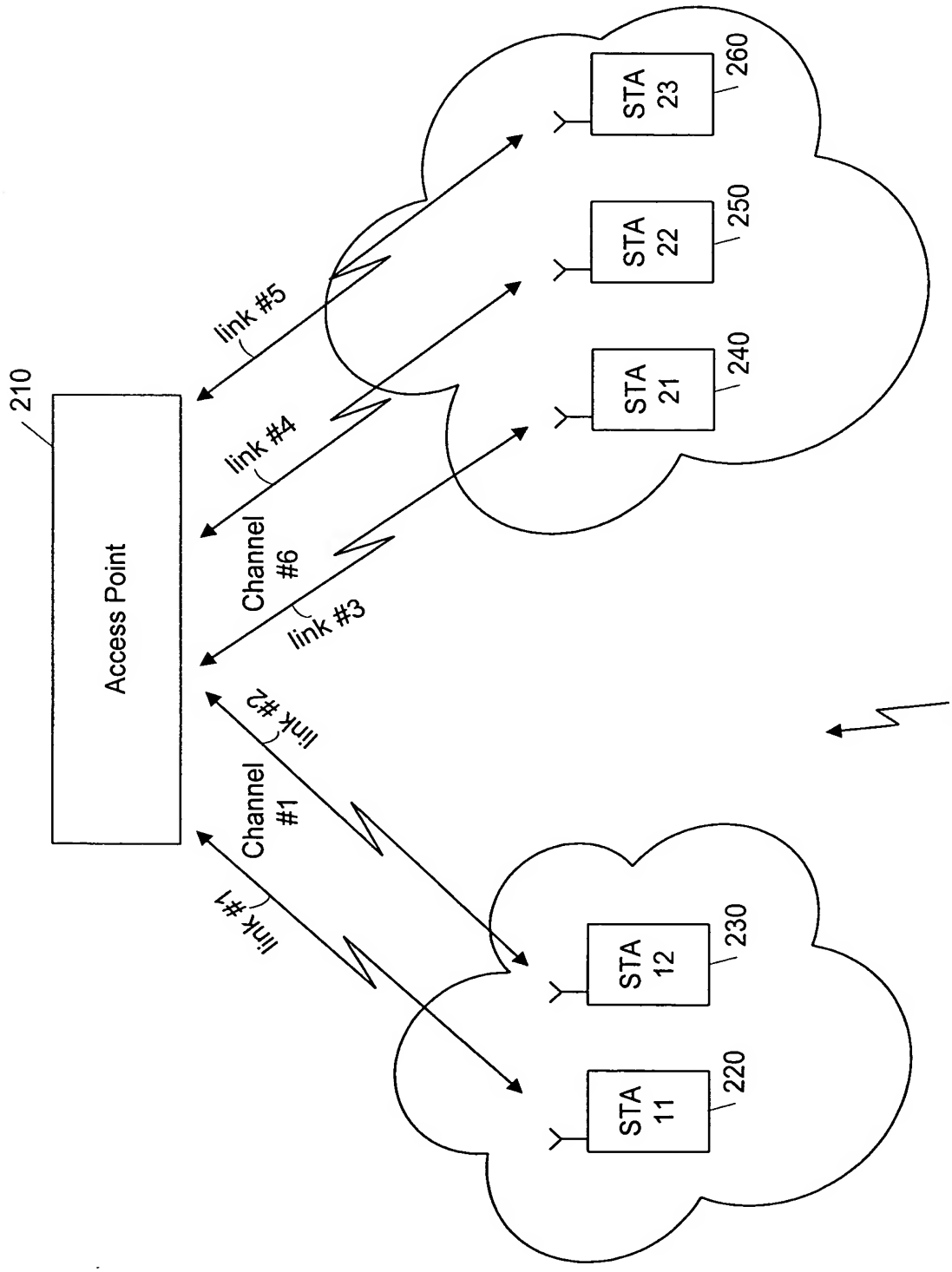
210
Access Point
link #5
link #4
Channel #6
link #3
link #2
Channel #1
link #1
STA 23
260
STA 22
250
STA 21
240
STA 12
230
STA 11
220
200

FIG. 2

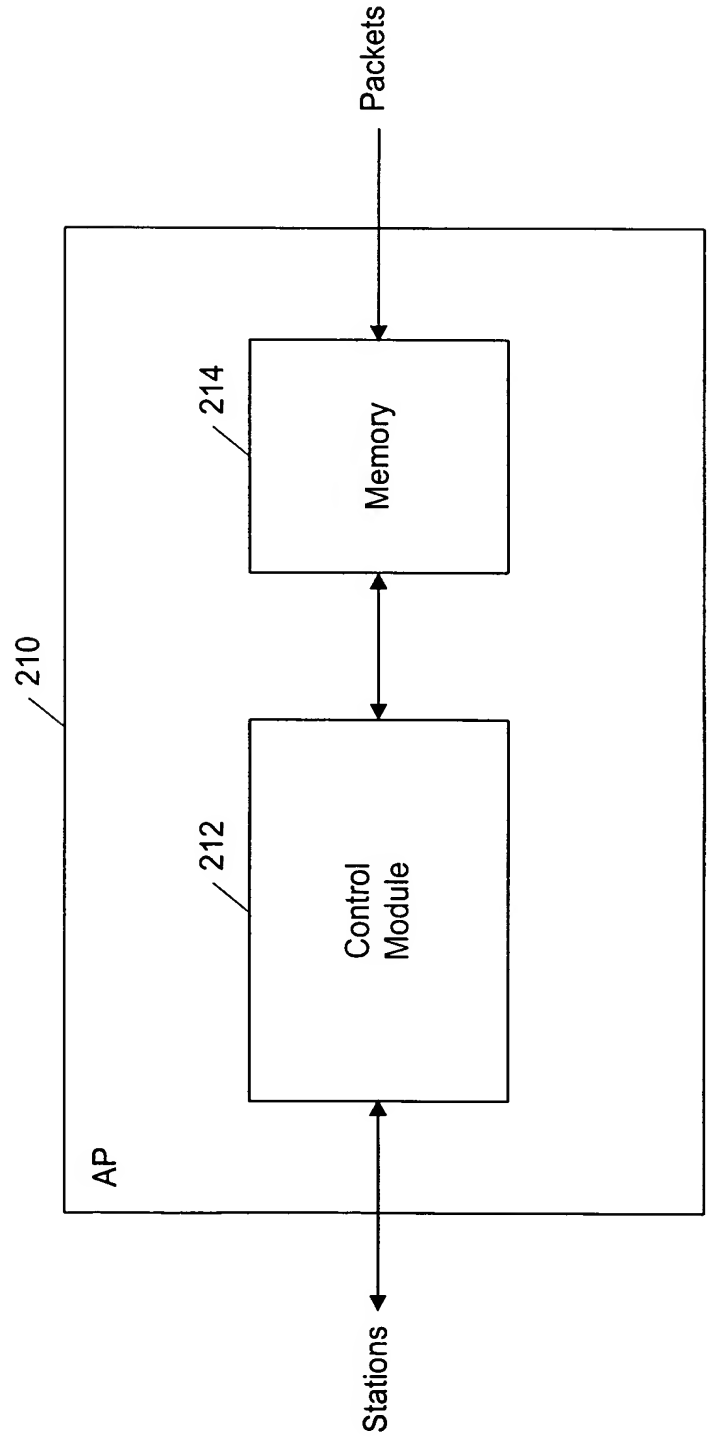

FIG. 3

Link Number	MAC Address	Associated Channel #	Queue Size (Packets) /BW (Mbps)	QoS Level (Priority)	RSSI
1	xx-xx-xx-xx-xx-x1	1	122 (5)	1	80
2	xx-xx-xx-xx-xx-x2	1	34 (2)	0	67
3	xx-xx-xx-xx-xx-x3	6	23 (1)	2	98
4	xx-xx-xx-xx-xx-x4	6	123 (6)	3	34
5	xx-xx-xx-xx-xx-x5	6	20 (2)	2	45

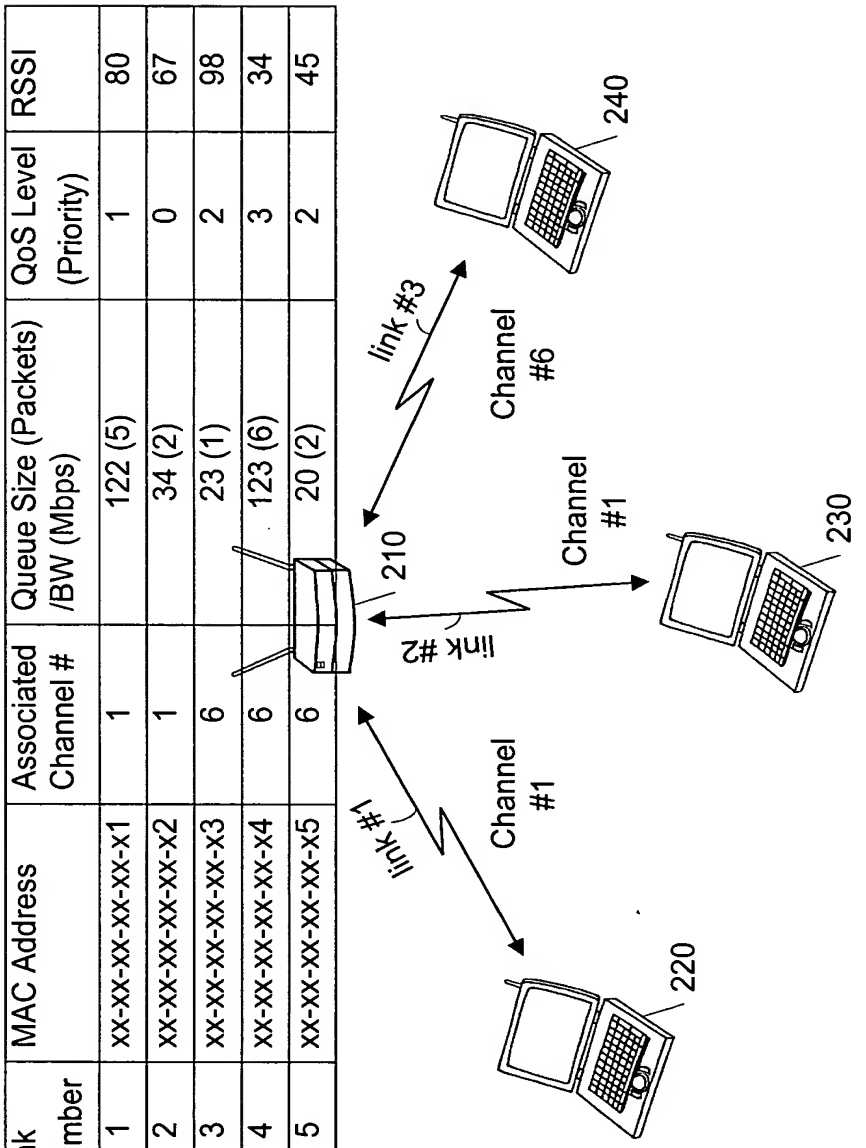

FIG. 4

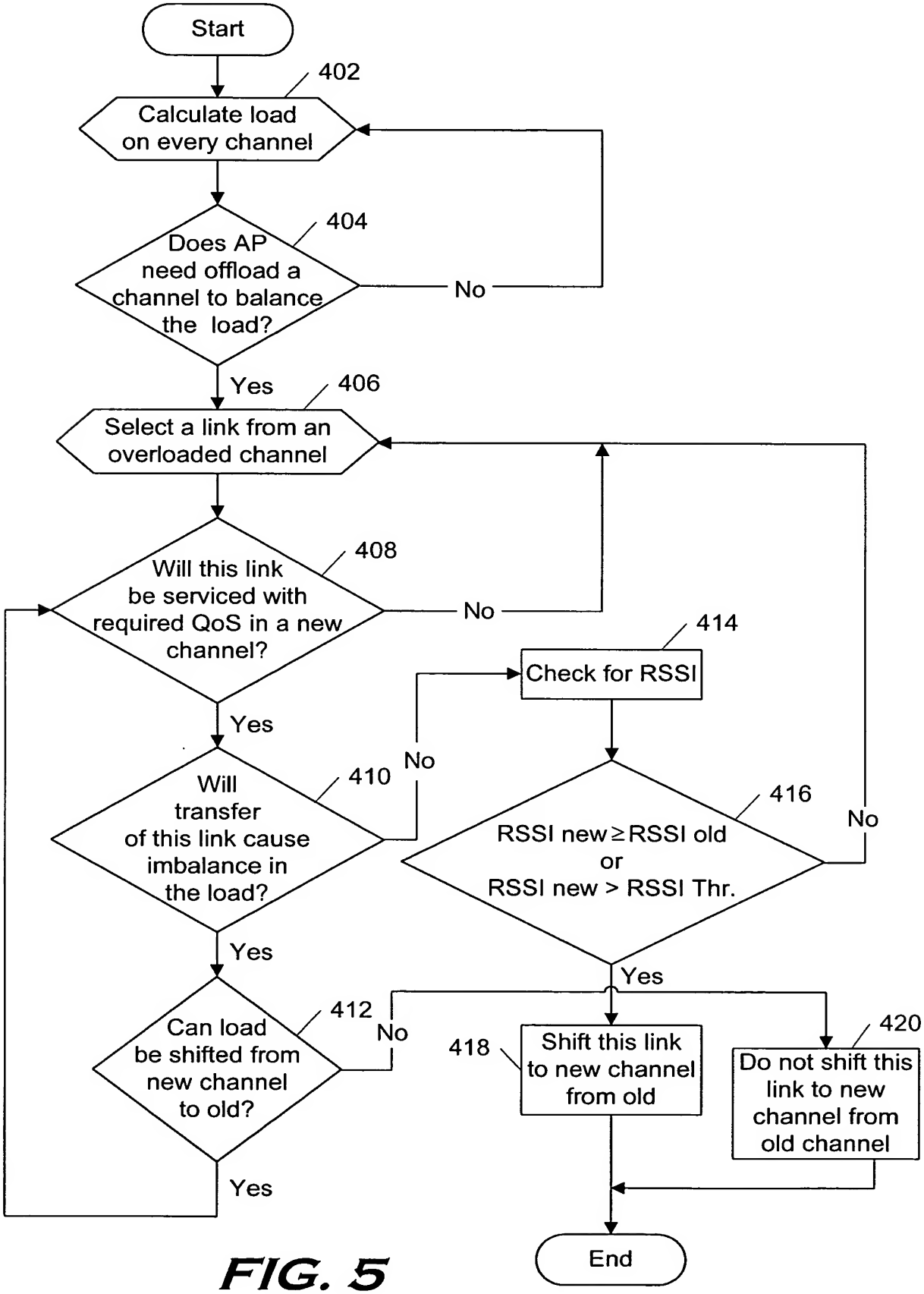
Start
402
Calculate load on every channel
404
Does AP need offload a channel to balance the load?
No
Yes
406
Select a link from an overloaded channel
408
Will this link be serviced with required QoS in a new channel?
No
Yes
414
Check for RSSI
410
Will transfer of this link cause imbalance in the load?
No
416
RSSI new ≥ RSSI old or RSSI new > RSSI Thr.
No
Yes
412
Can load be shifted from new channel to old?
No
Yes
418
Shift this link to new channel from old
420
Do not shift this link to new channel from old channel
End

FIG. 5

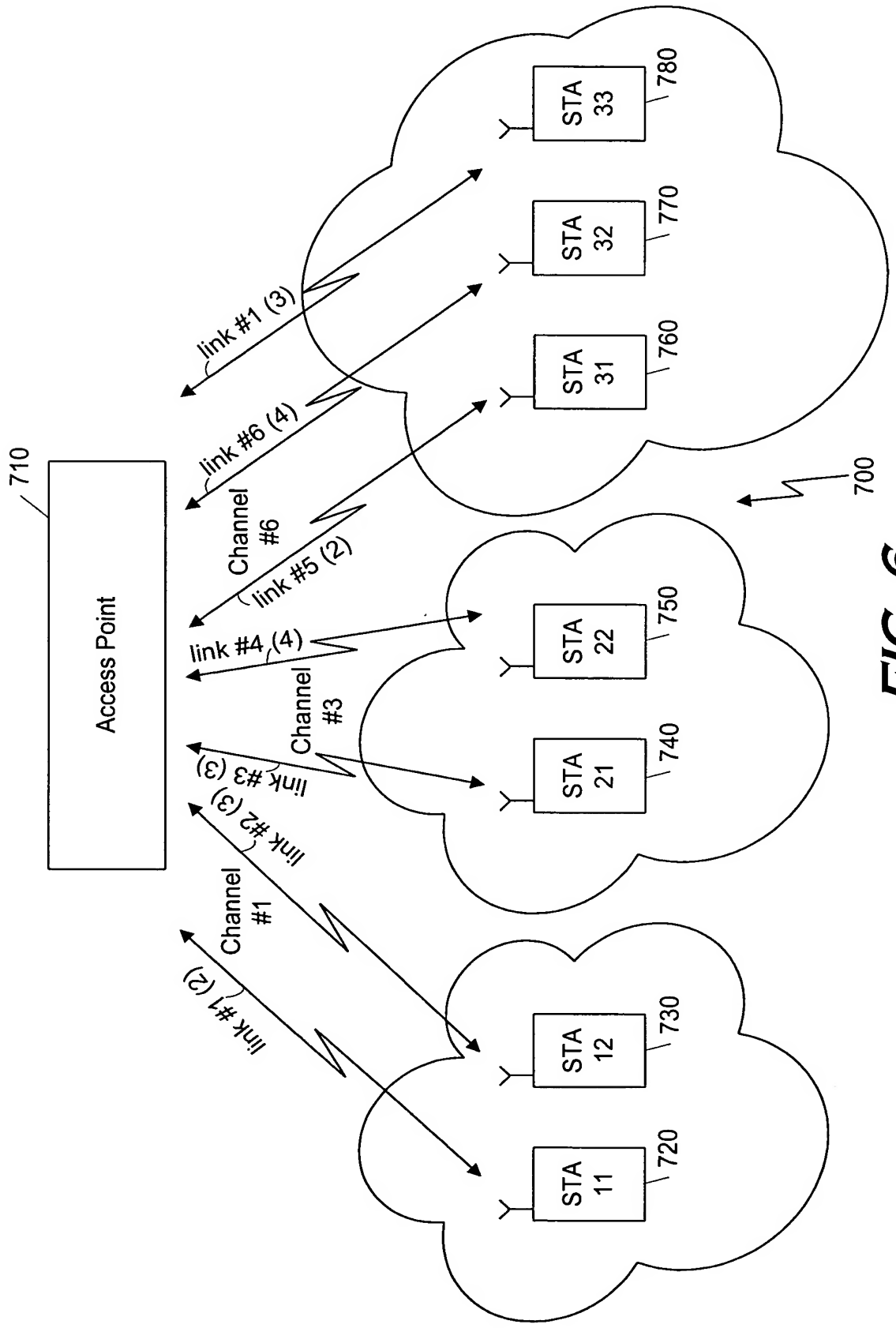
710
Access Point
700
STA 11
720
STA 12
730
STA 21
740
STA 22
750
STA 31
760
STA 32
770
STA 33
780
Channel #1
Channel #3
Channel #6
link #1 (3)
link #2 (3)
link #3 (3)
link #4 (4)
link #5 (2)
link #6 (4)

FIG. 6